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<p>Modified Form 1449/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>	<b>Application Number</b>	08/934,143
	<b>Filing Date</b>	September 19, 1997
	<b>First Named Inventor</b>	Richard J. Helferich
	<b>Group Art Unit</b>	<del>2740</del> 2687
	<b>Examiner Name</b>	T. Nguyen
	<b>Attorney Docket Number</b>	19504-014

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## U.S. PATENT DOCUMENTS

Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date if Appropriate
DP	1.	4,868,560	9/19/89	Oliwa et al.	340	825	5/11/88
	2.	5,175,758	12/29/92	Levanto et al.	379	57	9/4/90
	3.	5,455,823	10/3/95	Noreen et al.	370	50	10/19/92
	4.	5,463,672	10/31/95	Kage	379	59	12/14/92
	5.	5,489,894	2/6/96	Murray	340	825	4/4/94
	6.	5,630,207	5/13/97	Gitlin et al.	455	54	6/19/95
	7.	5,684,859	11/4/97	Chanroo et al.	379	58	5/1/95
	8.	5,696,500	12/9/97	Diem	340	825	8/18/95
	9.	5,761,622	6/2/98	Priest	455	522	5/18/95
	10.	5,815,800	9/29/98	Su et al.	455	31	6/24/96
DP	11.	5,850,594	12/15/98	Cannon et al.	455	31.3	8/26/96

## FOREIGN PATENT DOCUMENTS

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A circular stamp from the Office of Intellectual Property and Economic Development (OIPED). The text "OIPED" is curved along the top inner edge, and "OFFICE OF INTELLECTUAL PROPERTY AND ECONOMIC DEVELOPMENT" is curved along the bottom inner edge. The date "JAN 26 2005" is stamped in the center.

***Complete if Known***

Application Number	09/688,321
Filing Date	October 13, 2000
First Named Inventor	Richard J. HELFERICH
Group Art Unit	2685
Examiner Name	T.T. Nguyen
Confirmation No.	9368

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Sheet	1	of	1
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Attorney Docket Number	0101-138
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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>a</sup>
		Office <sup>3</sup> Code	Number <sup>4</sup>	Kind <sup>5</sup> (if known)			
09		KR	00164369	B1	SAMSUNG ELECTRONICS CO. LTD.	09-11-1998	Ab
82		JP	6-318899	A	DOCOMO ENGINEERING INC.	11-15-94	✓
819		JP	8-228368	A	CASIO COMPUTER CO. LTD.	09-03-1996	✓
Examiner Signature					Date Considered	3/25/95	

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code. <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.



**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Complete if Known

Application Number 09/688,321

Filing Date 10/13/2000

First Named Inventor Richard J. Helferich

Group Art Unit 2685

Examiner Name Thuan T. Nguyen

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Attorney Docket Number 0101-138

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
DP	A	5,797,091		Clise et al.	August 18, 1998
	B	5,857,020		Peterson, Jr.	January 5, 1999
	C	5,966,652		Coad et al.	October 12, 1999
	D	6,064,879		Fujiwara <sup>3</sup> et al.	May 16, 2000
	E	6,356,939	B1	Dahl, Andrew A.	March 12, 2002
	F	6,567,179	B1	Sato et al.	May 20, 2003
DB	G	2002/0032658	A1	Oki et al.	March 14, 2002

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office <sup>3</sup> Code	Number <sup>4</sup>	Kind <sup>5</sup> (if known)			
DP	H	JP	08228368	A	Casio Comput Co., Ltd.	September 3, 1996	AB

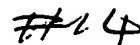
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code. <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

**Complete if Known**

**09/688,321**

**October 13, 2000**

Richard J. Helferich

~~2634~~ 2680

~~To be assigned~~ T. NGUYEN

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**Date  
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code. <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.



# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number	09/688,321
Filing Date	October 13, 2000
First Named Inventor	Richard J. HELFERICH
Group Art Unit	<del>2631</del> 2685
Examiner Name	<del>Unassigned</del> T. NGUYEN

Sheet	1	of	1	Attorney Docket Number	0101-138
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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
82	A	6,018,657		Kennedy, III et al.	January 25, 2000
82	B	5,029,199		Jones et al.	July 2, 1991
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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office <sup>3</sup> Code	Number <sup>4</sup>	Kind <sup>5</sup> (if known)			

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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code.

<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.



# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 09/688,321

Filing Date October 13, 2000

First Named Inventor Richard J. HELFERICH

Group Art Unit

2631-2680

Examiner Name

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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
JH	A	5,724,410		Parvulescu et al.	Mar. 3, 1998
	B	5,907,805		Chotai	May 25, 1999
	C	6,233,318		Picard et al.	May 15, 2001
	D	6,292,668		Alanara et al.	Sep. 18, 2001
	E	6,370,389		Isomursu et al.	Apr. 9, 2002
	F	5,239,466		Morgan et al.	Aug. 24, 1993
	G	5,557,659		Hyde-Thomson	Sep. 17, 1996
	H	5,751,793		Davies et al.	May 12, 1998
	I	6,259,892		Helferich	Jul. 10, 2001
	J	6,233,430		Helferich	May 15, 2001
	K	6,253,061		Helferich	Jun. 26, 2001
	L	6,097,941		Helferich	Aug. 1, 2000
	M	6,459,360		Helferich	Oct. 1, 2002
JH	N	6,462,646		Helferich	Oct. 8, 2002

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office <sup>3</sup> Code	Number <sup>4</sup>	Kind <sup>5</sup> (if known)			
Examiner Signature					Date Considered	3/25/01	

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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/688,321
				Filing Date	10/13/2000
				First Named Inventor	Helferich, Richard J.
				Group Art Unit	2691 2685
Sheet	1	of	2	Examiner Name	Not yet assigned T. NGUYEN
				Attorney Docket Number	00101-138-USP

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
8/6		5,406,557		Baudoin	04/11/1995	
		5,455,579		Bennett et al.	10/3/95	
		5,483,352		Fukuyama et al.	01/09/1996	
		5,564,018		Flores et al.	10/08/1996	
		5,557,659		Hyde-Thompson	09/17/1996	
		5,608,786		Gordon	03/04/1997	
		5,630,060		Tang et al.	05/13/1997	
		5,633,916		Goldhagen et al.	05/27/1997	
		5,649,305		Yoshida	7/15/97	
		5,717,742		Hyde-Thompson	02/10/1998	
		5,737,394		Anderson et al.	04/07/1998	
		5,737,395		Iribarren	04/07/1998	
		5,742,668		Pepe et al.	04/21/1998	
		5,745,689		Yeager et al.	04/28/1998	
		5,796,394		Wicks et al.	08/18/1998	
		5,805,886		Skarbo et al.	09/08/1998	
		5,870,454		Dahlen	02/09/1999	
		5,812,795		Horovitz et al.	09/22/1998	
		5,828,882		Hinckley	10/27/1998	
		5,835,089		Skarbo et al.	11/10/1998	
		5,872,926		Levec et al.	02/16/1999	
		5,875,436		Kikinis	02/23/1999	
		5,884,159		Thro et al.	03/16/1999	
		5,892,909		Grasso et al.	04/06/1999	
		5,905,495		Tanaka et al.	05/18/1999	
		5,913,032		Schwartz et al.	06/15/1999	
		5,938,725		Hara	08/17/1999	
		5,948,059		Woo et al.	09/07/1999	
		5,951,638		Hoss et al.	09/14/1999	
		5,961,590		Mendez et al.	10/05/1999	
		5,961,620		Trent et al.	10/05/1999	
		5,963,618		Porter	10/05/1999	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Country	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
8/6			O 631 419 A1		Europe	12/28/1994		
1			EP 0 777 394 A1		Europe	06/04/1997		
			WO 98/58476		PCT	12/23/1998		
			WO 99 65256A		Logica, Inc.	12/16/1999		
8/6			EP 0831 664 A2		Siemens Business Communication Systems, Inc.	09/19/1997		



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PTO/SB/08A (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031  
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/688,321
				Filing Date	10/13/2000
				First Named Inventor	Helferich, Richard J.
				Group Art Unit	<del>2001-2685</del> <b>2001-2685</b>
				Examiner Name	<del>Not yet assigned</del> <b>Not yet assigned</b>
				Attorney Docket Number	00101-138-USP
Sheet	2	of	2	Examiner Signature	
				Date Considered	3/25/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

Examiner Signature		Date Considered	
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached

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INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

Docket Number	Application Number
19529-030	08/934,143
Applicant(s)	
Richard J. Helferich	
Filing Date	Group Art Unit
September 19, 1997	2749 2685

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING OR IF APPROPRIATE
<i>EP</i>	A	6,021,433	2/1/00	Payne et al.			

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations	
						YES	NO

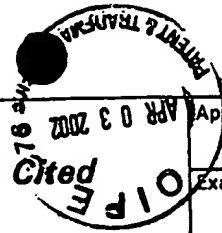
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER	DATE CONSIDERED
T. Nguyen <i>[Signature]</i>	3/25/05
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Restondocs:17752.1(DP4011.DOC)

# Notice of References Cited



Application No.  
08/934,143

Applicant(s)

Helferich

Examiner  
Thuan Nguyen

Group Art Unit

2749  
268

Page 1 of 1

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	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	6,087,956	7/2000	Helferich	340	825.44
B	5,974,447	10/1999	Cannon et al.	709	206
C	5,694,120	12/1997	Indekau et al.	340	825.44
D	5,870,030	2/1999	DeLuca et al.	340	825.44
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## NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
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<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> 	Docket Number	Application Number
	19504-014	08/934,143
	Applicant(s)	
	Richard J. Helferich	
	Filing Date	Group Art Unit
	September 19, 1997	2746-2685

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>SPK</i>	A	5,003,576	3/26/91	Helferich			
<i>SPK</i>	B	5,592,532	1/7/97	Koizumi			
	C						
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### FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations	
							YES	NO

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EXAMINER	DATE CONSIDERED
Not Yet Assigned- <i>[Signature]</i>	3/25/02
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

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INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

Patent & Trademark Office  
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OIPF

Docket Number		Application Number	
19504-014		08/934,143	
Applicant(s)			
Richard J. Helferich			
Filing Date		Group Art Unit	
9/19/97		2745 2288	

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILED APPROPRIATE
28	A	5,781,857	7/14/98	Hwang et al.			6/28/96
28	B	5,838,252	11/17/98	Kikinis			9/9/96

**FOREIGN PATENT DOCUMENTS**

	REF	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translations	
							YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER	DATE CONSIDERED
T. Nguyen	3/25/02

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Restondocs:6267.1(4%3011.DOC)

**Notice of References Cited**

Application No.  
08/934,143

Applicant(s)

Helferich

Examiner

Thuan Nguyen

Group Art Unit

2746

Page 1 of 1

**U.S. PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	5,448,759	09/05/95	Krebs et al.	455	54.1
B	5,896,500	12/09/97	Diem	455	38.4
C	5,809,130	09/15/98	Ayala	455	459
D	5,473,667	12/05/95	Neustein	455	31.2
E	5,561,702	10/01/96	Lipp et al.	455	31.2
F	5,726,643	03/10/98	Tani	455	38.4
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6300-0009-52SERIAL NO.  
08/934,143

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PATENT AND TRADEMARK OFFICE  
LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Richard J. HELFERICH

FILING DATE

September 19, 1997

GROUP

2745

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
016	AA	5,448,759	09/05/95	Jay R. KREBS, et al.			
	AB	5,239,679	08/24/93	Makoto MURAI			
	AC	5,774,803	06/30/98	Kazuo KARIYA			
013	AD	5,257,307	10/26/93	Masahiro ISE			
	AE	5,694,120	12/02/97	Jack P. INDEKEU, et al.			
	AF						
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

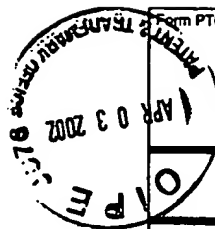
	AW	
	AX	
	AY	
	AZ	

Examiner

Date Considered

3/25/05

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY/DOCKET NO. 31520/168767	SERIAL NO. 08/934,143
MATERIAL INFORMATION STATEMENT (Use several sheets if necessary)		APPLICANT: Richard J. Helferich	
		FILING DATE: September 19, 1997	GROUP: 2088

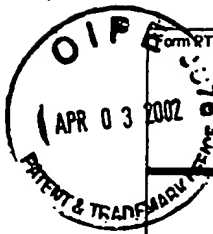
## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
83	3,118,145	01/14/64	Nee	—	—	
	4,480,253	10/30/84	Anderson	—	—	
	4,644,352	02/17/87	Fujii	—	—	
	4,737,979	04/12/88	Hashimoto	—	—	
	4,812,843	03/14/89	Champion, III et al.	—	—	
	4,821,308	04/11/89	Hashimoto	—	—	
	4,825,456	04/25/89	Rosenberg	—	—	
	4,845,491	07/04/89	Fascenda et al.	—	—	
	4,853,688	08/01/89	Andros et al.	—	—	
	4,897,835	01/30/90	Gaskill et al.	—	—	
	4,942,598	07/17/90	Davis	—	—	
	4,961,216	10/02/90	Baehr et al.	—	—	
	4,965,569	10/23/90	Bennett et al.	—	—	
	4,975,694	12/04/90	McLaughlin et al.	—	—	
	5,005,013	04/02/91	Tsukamoto et al.	—	—	
	5,007,105	04/09/91	Kudoh et al.	—	—	
	5,040,204	08/13/91	Sasaki et al.	—	—	
	5,043,721	08/27/91	May	—	—	
	5,047,763	09/10/91	Kuznicki et al.	—	—	
	5,065,423	11/12/91	Gaskill	—	—	
	5,093,659	03/03/92	Yamada	—	—	
	5,115,233	05/19/92	Zdunek et al.	—	—	
	5,117,449	05/26/92	Metroka et al.	—	—	
	5,128,980	07/07/92	Choi	—	—	
	5,134,724	07/28/92	Gehring et al.	—	—	
	5,138,311	08/11/92	Weinberg	—	—	
	5,138,312	08/11/92	Tsukamoto et al.	—	—	
	5,140,419	08/18/92	Galumbeck et al.	—	—	
	5,146,612	09/08/92	Grosjean et al.	—	—	
	5,153,903	10/06/92	Eastmond et al.	—	—	
	5,159,331	10/27/92	Park et al.	—	—	
	5,159,713	10/27/92	Gaskill et al.	—	—	
	5,173,688	12/22/92	DeLuca et al.	—	—	
84	5,177,780	01/05/93	Kasper et al.	—	—	

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PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO. 33 31520/168767

SERIAL NO. 08/934,143

APPLICANT Richard J. Helferich

FILING DATE September 19, 1997

GROUP 2685

MATERIAL INFORMATION STATEMENT  
(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
82	5,182,553	01/26/93	Kung	—	—	
	5,185,604	02/09/93	Napple et al.	—	—	
	5,192,947	03/09/93	Neustein	—	—	
	5,194,857	03/16/93	Gomez	—	—	
	5,212,636	05/18/93	Nakazawa	—	—	
	5,220,366	06/15/93	King	—	—	
	5,227,774	07/13/93	Benoist	—	—	
	5,241,305	08/31/93	Fascenda et al.	—	—	
	5,247,700	09/21/93	Wohl et al.	—	—	
	5,257,307	10/26/93	Ise	—	—	
	5,265,033	11/23/93	Vajk et al.	—	—	
	5,285,426	02/08/94	Teodoridis	—	—	
	5,315,635	05/24/94	Kane et al.	—	—	
	5,329,501	07/12/94	Meister et al.	—	—	
	5,379,031	01/03/95	Mondrosch et al.	—	—	
	5,396,537	03/07/95	Schwendeman	—	—	
	5,398,021	03/14/95	Moore	—	—	
	5,402,466	03/28/95	Delahanty	—	—	
	5,410,302	04/25/95	Dulaney, III et al.	—	—	
	5,418,835	05/23/95	Frohman et al.	—	—	
	5,426,422	06/20/95	Heuvel et al.	—	—	
	5,426,594	06/20/95	Wright et al.	—	—	
	5,428,663	06/27/95	Grimes et al.	—	—	
	5,432,839	07/11/95	DeLuca	—	—	
	5,440,559	08/08/95	Gaskill	—	—	
	5,444,671	08/22/95	Tschannen et al.	—	—	
	5,452,356	09/19/95	Albert	—	—	
	5,457,732	10/10/95	Goldberg	—	—	
	5,473,143	12/05/95	Vak et al.	—	—	
	5,475,653	12/12/95	Yamada et al.	—	—	
	5,479,378	12/26/95	Yamada et al.	—	—	
	5,479,408	12/26/95	Wii	—	—	
	5,481,255	07/02/96	Albert et al.	—	—	
86	5,483,595	01/09/96	Owen	—	—	

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Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO.: 31520/168767	SERIAL NO.: 08/934,143
MATERIAL INFORMATION STATEMENT (Use several sheets if necessary)		APPLICANT: Richard J. Helferich	
		FILING DATE: September 19, 1997	GROUP: 2688

## U.S. PATENT DOCUMENTS

EXAMINER INITIA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
88	5,485,503	01/16/96	Diem	—	—	
	5,487,100	01/23/96	Kane	—	—	
	5,497,373	03/05/96	Hulen et al.	—	—	
	5,530,438	06/25/96	Bickham et al.	—	—	
	5,530,930	06/25/96	Hahn	—	—	
	5,550,535	08/27/96	Park	—	—	
	5,555,446	09/10/96	Jasinski	—	—	
	5,572,196	11/05/96	Sakumoto et al.	—	—	
	5,572,488	11/05/96	Yamada et al.	—	—	
	5,579,372	11/26/96	Åström	—	—	
	5,581,593	12/03/96	Engelke et al.	—	—	
	5,588,009	12/24/96	Will	—	—	
	5,600,703	02/04/97	Dang et al.	—	—	
	5,604,788	02/18/97	Tett	—	—	
	5,623,242	04/22/97	Dawson, Jr. et al.	—	—	
	5,627,525	05/06/97	Kudoh et al.	—	—	
	5,635,918	06/03/97	Tett	—	—	
	5,644,627	07/01/97	Segal et al.	—	—	
	5,654,942	08/05/97	Akahane	—	—	
	5,663,703	09/02/97	Pearlman et al.	—	—	
	5,675,507	10/07/97	Bobo, II	—	—	
	5,675,627	10/07/97	Yaker	—	—	
88	5,678,179	10/14/97	Turcotte et al.	—	—	

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIA	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

Document : Statutory Invention Registration No. H610; Date: 03/07/89; Inventor: Focarile et al.	
EXAMINER: <i>[Signature]</i>	DATE CONSIDERED: 3/25/05
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Serial No.: 09/688,321

Page 1 of 1

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Modified Form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Application Number</b>	09/688,321
	<b>Filing Date</b>	October 13, 2000
	<b>First Named Inventor</b>	Richard J. Helferich
	<b>Group Art Unit</b>	2685 <del>To be assigned</del>
	<b>Examiner Name</b>	TW6045 <del>Not yet assigned</del>
	<b>Attorney Docket Number</b>	19529-038

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U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
W/6	A*	5,410,302	04/25/95	Dulaney, III et al.			

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	Translation No	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 08,934,143, filed September 19, 1997, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	3/25/05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

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PTO/SB (12-97)

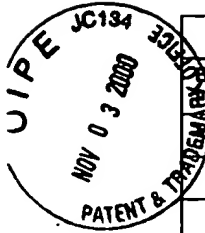
Approved for use through 9/30/00. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	Application Number	09/688,321
	Filing Date	October 13, 2000
	First Named Inventor	Richard J. Helferich
	Group Art Unit	<del>To be assigned</del> 2685
	Examiner Name	<del>Not yet assigned</del> T. NGUYEN
	Attorney Docket Number	19529-038

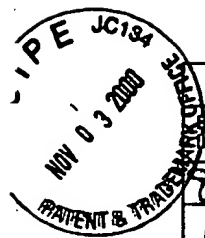
U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date if Appropriate
2/3	1.	6,021,433*	2/1/00	Payne et al.			
	2.	5,003,576*	3/26/91	Helferich	379	88	4/14/89
	3.	5,592,532*	1/7/97	Koizumi	379	58	8/26/94
	4.	6,087,956*	7/2000	Helferich	340	825.44	
	5.	5,974,447*	10/1999	Cannon et al.	709	206	
	6.	5,694,120*	12/1997	Indekeu et al.	340	825.44	
	7.	5,870,030*	2/1999	DeLuca et al.	340	825.44	
	8.	4,868,560*	9/19/89	Oliwa et al.	340	825	5/11/88
	9.	5,175,758*	12/29/92	Levanto et al.	379	57	9/4/90
	10.	5,455,823*	10/3/95	Noreen et al.	370	50	10/19/92
	11.	5,463,672*	10/31/95	Kage	379	59	12/14/92
	12.	5,489,894*	2/6/96	Murray	340	825	4/4/94
	13.	5,630,207*	5/13/97	Gitlin et al.	455	54	6/19/95
	14.	5,684,859*	11/4/97	Chanroo et al.	379	58	5/1/95
	15.	5,696,500*	12/9/97	Diem	340	825	8/18/95
	16.	5,761,622*	6/2/98	Priest	455	522	5/18/95
	17.	5,815,800*	9/29/98	Su et al.	455	31	6/24/96
	18.	5,850,594*	12/15/98	Cannon et al.	455	31.3	8/26/96
	19.	5,781,857*	7/14/98	Hwang et al.	—	—	6/28/96
	20.	5,838,252*	11/17/98	Kikinis	—	—	9/9/96
	21.	5,448,759*	09/05/95	Jay R. Krebs et al.	—	—	
	22.	5,239,679*	08/24/93	Makoto Murai	—	—	
	23.	5,774,803*	06/30/98	Kazuo Kariya	—	—	
	24.	5,257,307*	10/26/93	Masahiro Ise	—	—	
	25.	5,694,120*	12/02/97	Jack P. Indekeu et al.	—	—	
	26.	3,118,145*	01/14/64	Nee	—	—	
2/3	27.	4,480,253*	10/30/84	Anderson	—	—	



U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
28.	4,644,352*	02/17/87	Fujii				
29.	4,737,979*	04/12/88	Hashimoto				
30.	4,812,843*	03/14/89	Champion, III et al.				
31.	4,821,308*	04/11/89	Hashimoto				
32.	4,825,456*	04/25/89	Rosenberg				
33.	4,845,491*	07/04/89	Fascenda et al.				
34.	4,853,688*	08/01/89	Andros et al.				
35.	4,897,835*	01/30/90	Gaskill et al.				
36.	4,942,598*	07/17/90	Davis				
37.	4,961,216*	10/02/90	Baehr et al.				
38.	4,965,569*	10/23/90	Bennett et al.				
39.	4,975,694*	12/04/90	McLaughlin et al.				
40.	5,005,013*	04/02/91	Tsukamoto et al.				
41.	5,007,105*	04/09/91	Kudoh et al.				
42.	5,040,204*	08/13/91	Sasaki et al.				
43.	5,043,721*	08/27/91	May				
44.	5,047,763*	09/10/91	Kuznicki et al.				
45.	5,065,423*	11/12/91	Gaskill				
46.	5,093,659*	03/03/92	Yamada				
47.	5,115,233*	05/19/92	Zdunek et al.				
48.	5,117,449*	05/26/92	Metroka et al.				
49.	5,128,980*	07/07/92	Choi				
50.	5,134,724*	07/28/92	Gehring et al.				
51.	5,138,311*	08/11/92	Weinberg				
52.	5,138,312*	08/11/92	Tsukamoto et al.				
53.	5,140,419*	08/18/92	Galumbeck et al.				
54.	5,146,612*	09/08/92	Grosjean et al.				
55.	5,153,903*	10/06/92	Eastmond et al.				
56.	5,159,331*	10/27/92	Park et al.				
57.	5,159,713*	10/27/92	Gaskill et al.				
58.	5,173,688*	12/22/92	DeLuca et al.				
59.	5,177,780*	01/05/93	Kasper et al.				
60.	5,182,553*	01/26/93	Kung				
61.	5,185,604*	02/09/93	Nepple et al.				
62.	5,192,947*	03/09/93	Neustein				
63.	5,194,857*	03/16/93	Gomez				
64.	5,212,636*	05/18/93	Nakazawa				



U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	65.	5,220,366*	06/15/93	King	1	1	
	66.	5,227,774*	07/13/93	Benoist	1	1	
	67.	5,241,305*	08/31/93	Fascenda et al.	1	1	
	68.	5,247,700*	09/21/93	Wohl et al.	1	1	
	69.	5,257,307*	10/26/93	Ise	1	1	
	70.	5,265,033*	11/23/93	Vajk et al.	1	1	
	71.	5,285,426*	02/08/94	Teodoridis	1	1	
	72.	5,315,635*	05/24/94	Kane et al.	1	1	
	73.	5,329,501*	07/12/94	Meister et al.	1	1	
	74.	5,379,031*	01/03/95	Mondrosch et al.	1	1	
	75.	5,396,537*	03/07/95	Schwendeman	1	1	
	76.	5,398,021*	03/14/95	Moore	1	1	
	77.	5,402,466*	03/28/95	Delahanty	1	1	
	78.	5,140,302*	04/25/95	Dulaney, III et al.	1	1	
	79.	5,418,835*	05/23/95	Frohman et al.	1	1	
	80.	5,426,422*	06/20/95	Heuvel et al.	1	1	
	81.	5,426,594*	06/20/95	Wright et al.	1	1	
	82.	5,428,663*	06/27/95	Grimes et al.	1	1	
	83.	5,432,839*	07/11/95	DeLuca	1	1	
	84.	5,440,559*	08/08/95	Gaskill	1	1	
	85.	5,444,671*	08/22/95	Tschannen et al.	1	1	
	86.	5,452,356*	09/19/95	Albert	1	1	
	87.	5,457,732*	10/10/95	Goldberg	1	1	
	88.	5,473,143*	12/05/95	Vak et al.	1	1	
	89.	5,475,653*	12/12/95	Yamada et al.	1	1	
	90.	5,479,378*	12/26/95	Yamada et al.	1	1	
	91.	5,479,408*	12/26/95	Will	1	1	
	92.	5,481,255*	07/02/96	Albert et al.	1	1	
	93.	5,483,595*	01/09/96	Owen	1	1	
	94.	5,485,503*	01/16/96	Diem	1	1	
	95.	5,487,100*	01/23/96	Kane	1	1	
	96.	5,497,373*	03/05/96	Hulen et al.	1	1	
	97.	5,530,438*	06/25/96	Bickham et al.	1	1	
	98.	5,530,930*	06/25/96	Hahn	1	1	
	99.	5,550,535*	08/27/96	Park	1	1	
	100.	5,555,446*	09/10/96	Jasinski	1	1	
bp	101.	5,572,196*	11/05/96	Sakumoto et al.	1	1	



## U.S. PATENT DOCUMENTS

Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
017	102.	5,572,488*	11/05/96	Yamada et al.	7	7	
	103.	5,579,372*	11/26/96	Aström	7	7	
	104.	5,581,593*	12/03/96	Engelke et al.	7	7	
	105.	5,588,009*	12/24/96	Will	7	7	
	106.	5,600,703*	02/04/97	Dang et al.	7	7	
	107.	5,604,788*	02/18/97	Tett	7	7	
	108.	5,623,242*	04/22/97	Dawson, Jr. et al.	7	7	
	109.	5,627,525*	05/06/97	Kudoh et al.	7	7	
	110.	5,635,918*	06/03/97	Tett	7	7	
	111.	5,644,627*	07/01/97	Segal et al.	7	7	
	112.	5,654,942*	08/05/97	Akahane	7	7	
	113.	5,663,703*	09/02/97	Pearlman et al.	7	7	
	114.	5,675,507*	10/07/97	Bobo, II	7	7	
	115.	5,675,627*	10/07/97	Yaker	7	7	
	116.	5,678,179*	10/14/97	Turcotte et al.	7	7	
	117.	5,448,759*	09/05/95	Krebs et al.	455	54.1	
	118.	5,696,500*	12/09/97	Diem	455	38.4	
	119.	5,809,130*	09/15/98	Ayala	455	459	
	120.	5,473,667*	12/05/95	Neustein	455	31.2	
	121.	5,561,702*	10/01/96	Lipp et al.	455	31.2	
017	122.	5,726,643*	03/10/98	Tani	455	38.4	

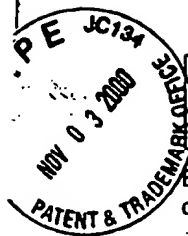
## FOREIGN PATENT DOCUMENTS

Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No

## OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
017	123.	Document: Statutory Invention Registration No. H610; Date: 03/07/89; Inventor: Focarile et al.*

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 08,934,143, filed September 19, 1997, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).



Examiner Signature	<i>[Handwritten Signature]</i>	Date Considered	<i>3/25/05</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

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